I & Fnd Final Bill

M. A. R. 57 (Rule 116)
Measurement Book

Work code. 005-18-000066
No. B Est Cost Rs. 10.00 Lakhs

Serial No. ..... Improvements to Road and Drains At 494913

Name of Work ..... Vinayakanagara From 3rd Cross Road To in ward No. 05

Name of Contractor of nature of Agency ..... Byatarayanapura Sub division (2nd call)

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Work order no. - BBMP/EE/BTP/WO/199/2018.19. Date. 19.12.2018 Name & Benificiaries Contractor - Sri. Chethan. P. 03 5th cross Lawrance layout Veerannapalya Bangalore. 560045						
(1)	Earthwork excavation by manual means in ordinary soil Soil involving an average horizontal throw up to 2 meters and an average lift up to 0.50 Mtr excavated Sewage lines						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	and sides neatly dressed the disposed earth to be leveled neatly after breaking & clods Compress as per Specification.						
	As per pre-Measurement recorded vide Page No 494992 to 494993 in this MB.					89.59 M^3	
							8152:69
	Rate. 91:00						
(2)	Removing BS slag & drain and stacking etc... Compress as per Specification.						
	As per pre-Measurement recorded vide Page No 494993 to 494995 in this MB					440.55 M^2	
	Rate. 69:00						30397:1

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

494944

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(3)	Refixing Stone slabs & grating and pointing in CM 1:3 ete.. complete as per Specification. Quantity vide Item no.. (2) Rate. 84:00					440.55 M^2	37006:20
(4)	Providing Granite slabs & Selected Quality roughly dressed and fixed in CM 1:6 including fixing curing ete.. complete 7.5 cms thick ete.. complete as per Specification.						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	As per Pre. measurement recorded vide Page No. 494994 to 494995 Item No. 2(A) Missing Slab on in this MB. Page. 696:10					146.88 m^2	102172:8
	(5) Providing and laying in position Plain Cement Concrete M1:4:8 with OPC cement @ 180 kg/cum Nominal down size Graded Granite metal Coarse aggregate @ 0.8 cum and fine aggregate @ 0.57 cum mechanically Concrete laid in Layers not exceeding 15 cm Thick well Compacted in foundation and Plinth including Cost of all materials Labour & Machinery Curing Complete						

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

494945

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	As per Pre. measurement recorded vide page no.. 494995 to 494995 in this MB.					5.84 M^3 ~~116.80~~ M^2	31483:44
	Rate. 5391:00						
(6)	Providing and constructing granite/pre P/ basalt size stone Masonry in foundation with cement mortar 1:6 stone hammered dressed not less than 20 cms high bond stones at 2.0 mtrs. apart in each course including cost of necessary labour curing						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Compose as per Engineer incharge & the work. As per Pre-measurement recorded vide page no. 4949/6 in this MB Rate · ₹638 : 00					11.16	51760.08
(7)	Providing and constructing granite/ stone/ basalt stone masonry in basement with CM 1:6 edges of stones carefully dressed in courses not less than 15 cm with hard stones of 2.0 Mtr length in each course in cement & materials Contracting Compose as per Specifica						

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To..... 494946

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Vinayakanagara						
	8th Main ①	2	9.10	0.50	0.45	4.09	
	7th Main ②	2	4.65	0.50	0.45	2.09	
	③	2	4.85	0.50	0.45	2.18	
						8.36 M^3	
	Rate · 5544·00						46347·84
⑧	Providing and removing centering shuttering strutting propping etc. and removal of form work for slabs and sunks & beams beam haunchings sanitiner finish						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Encasements and lintels not exceeding 1.0mm deep including cost of all necessary cages in complete as per specification.						
	As per Pre-Measurement recorded vide page No. 494996 to 494997 in this MB					21.99 m^2	
	Rate. 284:00						6245:16
(9)	Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC cement of 220kg with 20mm and down size graded granite metal coarse aggregate of 0.8cum and fine aggregate 0.56 cum machine mixed concrete laid in layers not exceeding						

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To..... 494947

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	15 cms thick RCC well Compacted in foundation and plinth including cost of all materials labour tools & machinery curing complete as per specification. Vinayakanagara						
	Coping Convex.						
	8 M main ①	2	9.10	0.50	0.15	1.36	
	7 M main ②	2	4.65	0.50	0.15	0.69	
	③	2	4.85	0.50	0.15	0.72	
	Vent convex.	1	9.10	0.60	0.15	0.81	

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MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1	4.65	0.60	0.15	0.41	
		1	4.85	0.60	0.15	0.43	
						4.42 m³	
	Rate. 5851:00						25861:4
(10)	Providing Flush pointing to coursed Stone Masonry with Cement Mortar 1:3 20mm deep after raking joints to depth 8.20mm nicely lining including cost of materials Curing Complete as per specification.						(11)
	Vinayakanagara (1)	2	9.10	-	0.50	9.10	

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

494948

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	②	2	4.65	-	0.50	4.65	
	③	2	4.85	-	0.50	4.85	
						18.60 m^2	
	Rate. 107:00						1990 : 20
(11)	Providing and laying in position Plain cement concrete 8 Mix M-20 with OPC cement @ 320 kg with 20mm and down size graded granite metal coarse aggregate @ 0.894 and fine aggregate @ 0.459 cum with Super Plasters @ 3.2 kg						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Conforming to IS 9103:1999 Reinforced machine mixed concrete						
	exceeding 15 cum mixed & vibrated for all works in Sump,						
	Plinth and ground floor level for RCC slab Staircase						
	Circular retaining walls return walls including abutments						(2)
	pillars columns piers abutments pilasters Portal frame						
	including cost & necessary lagan carriage complete as per						
	Specification.						
	Vinayakanagara						
	①	1	9.10	1.50	0.23	3.13	
	②	1	4.65	1.50	0.23	1.60	
	③	1	4.85	1.50	0.23	1.67	
	Missing slabs	6	1.50	0.60	0.23	1.24	
	Rate. 6658:00					7.64 M³	5086

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

494949

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(12)	Providing TMT Steel reinforcement for RCC Work including straightening cutting bending hooking placing in position tacking and or welding wherever required during bonding wire and overlapping to the adjoining members wherever necessary complete as per design Class hooks and bastage shall not be measured and paid) cost of measuring carbon Complete as per specification. As per Pre-measurement recorded vide Page no. 494997 to 494998 in this MB. Rate. 67134:00					0.69 Ton	46322:46

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(13)	Providing laying Spreading and compacting Graded Stones aggregate to WBM Mix macadam Specification including premixing the material with water as one in mechanical mix Plant Carriage & mixed material & Different size laying in uniform Layers WBM paver in sub base course on well Prepared surface and compaction with vibratory rollers to achieve the desired density Confirm as per Specification.						
	As per Pre-Measurement recorded vide Page No.. 494999 in this MB 195.74 M^3						
	Rate - 1848.00						361727

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

494950

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(14)	Providing and applying Primer Coat from 7.5 to 9.8 Ks and 9.8 to 12.2 Ks per 10 Sq.m for Surfaces of low and medium porosity respectively over prepared Surface of granular base WBM cut back Gr 70 or any other bituminous mixed with diesel as Lo Ks per Lo Sq.m or heated bituminous mixed with diesel as Lo Ks per including Cost of all materials Labour T&P & Machinery Complete as per Specification. As per pre-measurement recorded vide Page No. 49 5000 in this MB. 978.74 M^2 60681=88 Rate. 62=00						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(15)	Providing and laying Semi dense Bituminous Concrete 25mm size using 100-120 TPH batch type HMP Producing an average output of 75 tonnes per hour using Crushed aggregate of Specified grading premixed with Bitumen binder of 4.5 to 5% by mix and laying transporting the hot mix to road side laying with a hydrostatic Paver finisher with sensor control to the required grade level and alignment keeping with smooth wheeled Vibratory and tandem roller to achieve the desired Compaction Compacted in all respects as per specification.						
	K.K. layout	1	30.00	(5.10+5.20)/2 x 0.025		3.86	
		1	30.00	(5.15+5.10)/2 x 0.025		3.84	

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

494951

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	$\frac{(5.15+5.20)}{2}$	×0.025	3.88	
		1	30.00	$\frac{(5.20+5.15)}{2}$	×0.025	3.88	
		1	15.00	$\frac{(5.15+5.10)}{2}$	×0.025	1.92	
		1	30.00	$\frac{(5.10+5.20)}{2}$	×0.025	3.86	
		1	15.00	$\frac{(5.20+5.15)}{2}$	×0.025	1.94	
	Rate. 6719:00	1	10.00	5.10	0.025	1.27	164279:55
						24.45 M³	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(16)	Lead for disposal of Debris of Sluice gates by mechanical means including loading & unloading from 0.00 to 2.00 KM.						
	Quantity vide Item No. (1)					89.59 M^3	6808:8
						Total Rs.	1032105:1
	Certificate.						
	(1) Certified that the above work done satisfactory.						
	(2) This bill amount has not been claimed in any previous bill.						

Rate 76.00

16/8/19

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ವ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

16/8/19

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ವ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ.

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

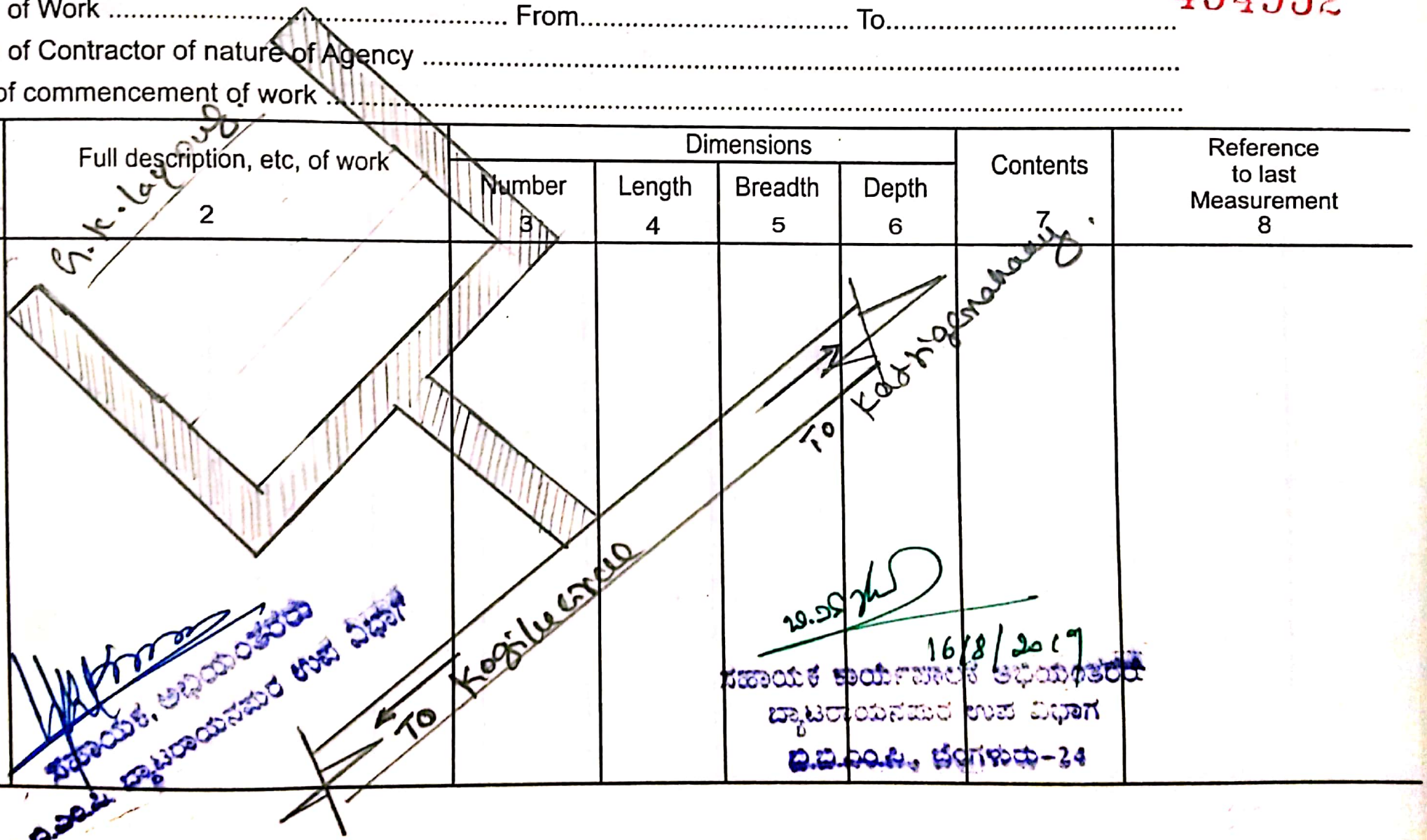
494952

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
							

ಸಹಾಯಕ, ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ.

16/8/2017
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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